

Title (en)

Method of increasing discrimination for a single base mismatch using hurdle DNA's and artificially mismatched probes

Title (de)

Verfahren zur Verbesserung der Unterscheidung von einer einzelnen Basenfehlpaarung durch die Verwendung von "hurdle" DNAs und Sonden mit artifiziiellen Fehlpaarungen

Title (fr)

Méthode pour augmenter la distinction de mésappariement d'une seule paire de bases, en utilisant de l'ADN "obstacle" et des sondes artificiellement mésappariées

Publication

EP 1683872 B1 20080319 (EN)

Application

EP 06000611 A 20060112

Priority

KR 20050006085 A 20050122

Abstract (en)

[origin: EP1683872A1] A method of increasing discrimination for a target DNA having a polymorphic site is provided. The method includes: synthesizing a first probe by artificially substituting a base of a probe which is fully complementary to a target DNA having a polymorphic site by a mismatched natural base and synthesizing a second probe by artificially substituting a base of another probe having a single base mismatch at a position corresponding to the polymorphic site of the target DNA with a mismatched natural base; synthesizing a first hurdle DNA which is fully complementary to the first probe and is shorter than the first probe and a second hurdle DNA which is fully complementary to the second probe and is shorter than the second probe; immobilizing the first and second probes on a substrate; hybridizing the immobilized first and second probes with the first and second hurdle DNAs, respectively; and hybridizing the target DNA with the hybrids. The addition of a hurdle DNA and variation of a probe base can improve an ability of discriminating a single base mismatch.

IPC 8 full level

C12Q 1/68 (2006.01)

CPC (source: EP KR US)

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Cited by

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